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## RESIN COATED SUPERFINE POWDERY SILICATE, COMPOSITION CONTAINING THE SAME AND ITS PRODUCTION

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### Abstract

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**PURPOSE:** To obtain a new coated superfine powdery silicate by coating the surface of a superfine powdery laminar silicate with an amide group-containing resin, having a wide use due to exhibition of compatibility with monomers, various solvents and resins.

**CONSTITUTION:** The surface of a superfine powdery silicate (preferably montmorillonite-based clay mineral) released into a single layer and/or several layer units is coated with an amide group-containing resin (preferably nylon 6) to give the objective superfine powdery silicate coated with an amide group-containing resin. The silicate is obtained by treating the surface of the superfine powdery silicate with an ammonium salt of an  $\omega$ -aminoalkylcarboxylic acid such as 4-amino-n-butyric acid and blending 100 pts.wt of the silicate with a monomer of a precursor for the amide group-containing resin such as  $\epsilon$ -caprolactam under conditions to give 1-300 pts.wt. of the formed amount of the coating amide group-containing resin while heating.

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